

## EAST Search History

| Ref # | Hits   | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|-----------------|------------------|---------|------------------|
| L1    | 11     | ("5058153" "5157653" "5544250" "6088668" "6122384" "6160886" "6195430" "6404886" "6442275" "6546099" "6700979").PN.  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:18 |
| L2    | 352    | 381/92.ccls. and (@ad<"20021115" or @rlad<"20021115")  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:26 |
| L3    | 3911   | voice activity detect\$ or VAD   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:35 |
| L4    | 1177   | (omni-directional or omnidirectional) and (unidirectional or uni-directional)  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:35 |
| L5    | 1358   | (stationary near3 noise)   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:35 |
| L6    | 328    | (non-stationary near3 noise)   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:35 |
| L7    | 1595   | array near5 microphone   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:36 |
| L8    | 27734  | noise near5 (suppression or suppressing or suppress or suppressed or suppressor)   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:36 |
| L9    | 10193  | interference near5 (suppression or suppressing or suppress or suppressed or suppressor)  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:37 |
| L10   | 598914 | beam or beamform\$3 or beam-form\$3  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:38 |
| L11   | 11     | 2 and 3  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:43 |
| L12   | 609    | spectral subtraction   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:52 |
| L13   | 504    | 3 and 10   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 13:52 |
| L14   | 15     | 3 and 10 and 12  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 15:34 |
| L15   | 25573  | (detect\$3 or determin\$5) near5 (voice or speech)   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 15:35 |
| L17   | 34     | 10 and 12 and 15 and (@ad<"20021115" or @rlad<"20021115")  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 16:51 |
| L18   | 414    | ((combine or combining or combined or combination) near10 (time domain)) and ((combine or combining or combined or combination) near10 (frequency domain)) | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 16:50 |
| L20   | 38     | (8 or 9) and 10 and 12 and (@ad<"20021115" or @rlad<"20021115")  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 16:59 |
| L21   | 32     | 18 and 10 and (@ad<"20021115" or @rlad<"20021115")   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:01 |
| L22   | 4      | 5 and 6 and 2 and (@ad<"20021115" or @rlad<"20021115")   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 16:59 |
| L23   | 1810   | 704/226,231,233,246.ccls. and (@ad<"20021115" or @rlad<"20021115")   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:03 |
| L24   | 486    | 381/94.1,94.2,94.3.ccls. and (@ad<"20021115" or @rlad<"20021115")  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:03 |
| L25   | 118    | 381/94.7.ccls. and (@ad<"20021115" or @rlad<"20021115")  | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:05 |
| L27   | 59     | 23 and 10 and 15   | US-PGPUB; USPAT | ADJ              | ON      | 2006/08/08 17:24 |

## EAST Search History

|     |       |   |                    |     |    |                  |
|-----|-------|---|--------------------|-----|----|------------------|
| L28 | 9     | 24 and 10 and 15  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:14 |
| L29 | 4     | 25 and 10 and 15  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:11 |
| L30 | 172   | blocking matrix   | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:24 |
| L31 | 78994 | reference signal  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:24 |
| L32 | 51    | 31 near10 15  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:27 |
| L33 | 7     | 32 and (2 or 23 or 24 or 25)  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:27 |
| L34 | 2295  | (directional or cardioid or supercardioid or hypercardioid or bidirectional or dipole) near5 microphone | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:31 |
| L35 | 33    | 10 and 34 and 12  | US-PGPUB;<br>USPAT | ADJ | ON | 2006/08/08 17:31 |